



Greater New Haven Water Pollution Control Authority

260 East Street New Haven, CT 06511
203.466.5280 p 203 772.1564 f www.gnhwpca.com

June 28, 2013

Mr. George V. Hicks
Sanitary Engineer
Municipal Facilities Section, Water Management Bureau
Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Subject: GNHWPCA Annual Progress Report
Consent Order WC5509

Dear Mr. Hicks:

Per Section B6 of the Consent Order WC5509, the Authority has assembled this letter and informational attachments to fulfill the requirement of an annual "progress report" which describes the actions the Authority has taken to comply with the Consent Order.

New to this year's Annual Progress Report is the GNHWPCA's first Annual CSO Flow Monitoring Program Data included as **Attachment "E"**.

Please find the following attachments as summary of our progress:

Attachment "A" is an updated version of the CSO LTCP Table to be used in both the "Annual Progress Report" and "5-yr Update to the LTCP." The general format of this table was approved by DEEP on 9/14/11. We have updated the "2013 Status" column to reflect all relevant project information and notes.

Attachment "B" is a listing of Approval / Denial letters the Authority has received from the DEEP between July 1, 2012 and the date of this letter. In summary the following CWF projects obtained approval:

1. Yale/Trumbull Phase 2 Study
2. Yale/Trumbull Phase 2 Preliminary Design
3. Yale/Trumbull Phase 2 Environmental Justice PP
4. Wet Weather / Nitrogen Phase 1 – Design Amendment No. 1
5. Wet Weather / Nitrogen Phase 1 – Approval to Advertise
6. Yale/Trumbull Phase 2 Preliminary Design
7. I/I Hamden and East Haven – Approval to Advertise

Attachment "C" is a listing of emails between DEEP and the Authority from July 1, 2012 to the time of this letter. The emails are limited to those which include a transmission of

documents or critical information relevant to the consent order and/or moving projects to construction through the CWF program.

Attachment "D" is a listing of GNHWPCA letter transmissions to the DEEP between July 1, 2012 and the date of this letter.

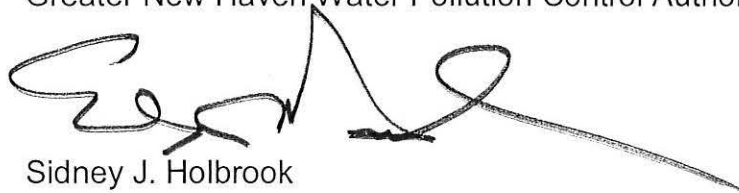
Attachments C and D are not intended to be comprehensive listings of all correspondence between GNHWPCA and DEEP. Rather they are those communications that contain material and substantive information on the relative subjects.

Attachment "E" includes calibrated flow monitoring results obtained from all Permitted CSO outfalls between June 8, 2012 and April 30, 2013. Monitoring was installed throughout the course of the entire year; therefore, some outfalls have more "meter months" than others. An updated CSO Map has also been included as part of this attachment.

I have personally examined and am familiar with the information submitted in these documents and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement made in this document or its attachment may be punishable as a criminal offense.

Sincerely,

Greater New Haven Water Pollution Control Authority

A handwritten signature in black ink, appearing to read 'Sidney J. Holbrook', with a long, sweeping horizontal line extending to the right.

Sidney J. Holbrook

Executive Director

cc: Gabe Varca, Director of Finance and Administration
Gary Zrelak, Director of Operations
Thomas V. Sgroi, P.E., Director of Engineering

Enc.

ATTACHMENT A

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO LONG TERM CONTROL PLAN ANNUAL STATUS REPORT
June 30, 2013

1997 EXISTING CONDITIONS MODEL

NPDES PERMIT CSO REFERENCE NO.	NO. OF CSO OUTFALLS	NO. OF CSO REGULATOR LOCATIONS	CSO REGULATOR LOCATION	CSO RECEIVING WATER	1997 CSO REGULATOR STATUS	1997 EXISTING CONDITIONS MODEL ¹ 2-YEAR DESIGN STORM CSO VOLUME (MG)
CSO 001	1	1	East Shore WPAF	New Haven Harbor	Active	
CSO 002	2	2	E.T.G. Boulevard @ Lamberton Street	West River	Active	1.1
CSO 003	3	3	E.T.G. Boulevard @ Orange Avenue	West River	Active	4.3
CSO 004	4	4	E.T.G. Boulevard @ Legion Avenue	West River	Active	6.1
CSO 005		5	E.T.G. Boulevard @ Derby Avenue	West River	Active	5.0
CSO 005 (A)	5	6	University Place		Active	Discharges to CSO 005 outfall
CSO 005 (B)		7	Elm / University Place		Active	Discharges to CSO 005 outfall
CSO 006	6	8	Whalley Avenue @ Fitch Street	West River	Active	4.6
CSO 007	7	9	Munson Street @ Canal Street	Mill River	Closed	0.0
CSO 008	8	10	Munson Street @ Orchard Street	Beaver Ponds	Active	0.2
CSO 009	9	11	Grand Avenue @ James Street	Mill River	Active	2.8
CSO 010	10	12	East Street @ I-91	Mill River	Active	0.7
CSO 010 (A)		13	East Street @ I-91	Mill River	Active	0.7
CSO 011	11	14	Humphrey Street @ I-91	Mill River	Active	9.9
CSO 012	12	15	Mitchell Drive east of Nicoll Street	Mill River	Active	2.7
CSO 013		16	Everitt Street @ East Rock Road	Mill River	Active	0.8
CSO 013 (A)	13	17	East Rock Road @ Everitt Street		Active	Discharges to CSO 013 outfall
CSO 014	14	18	Trumbull Street @ Orange Street	Mill River	Active	0.9
CSO 015	15	19	James Street Siphon	Quinnipiac River	Active	4.6
CSO 016	16	20	Poplar Street @ River Street	Quinnipiac River	Active	1.7
CSO 017	17	21	Grand Avenue @ Front Street	Quinnipiac River	Closed	0.0
CSO 018	18	22	Lombard Street @ North Front Street	Quinnipiac River	Active	1.7
CSO 019	19	23	Pine Street @ North Front Street	Quinnipiac River	Active	1.5
CSO 020	20	24	Quinnipiac Avenue @ Clifton Street	Quinnipiac River	Active	0.2
CSO 021	21	25	East Street Pump Station	New Haven Harbor	Active	5.4
CSO 021 (A)		26	Chapel / Hamilton	New Haven Harbor	Active	Discharges to CSO 021 outfall
CSO 022	22	27	Allen Place	New Haven Harbor	Active	No model data
CSO 023	23	28	Chestnut Street @ Water Street	New Haven Harbor	Closed	0.0
CSO 024	24	29	Boulevard Pump Station	New Haven Harbor	Active	3.5
CSO 025		30	Union Pump Station	New Haven Harbor	Active	4.2
CSO 025 (A)	25	31	Elm / University Place	New Haven Harbor	Active	Discharges to CSO 025 outfall
CSO 025 (B)		32	Grove / Whitney	New Haven Harbor	Active	Discharges to CSO 025 outfall
CSO 026	26	33	Humphrey Pump Station	Mill River	Active	0.1
CSO 027	27	34	East / Ives	Mill River	Active	0.7
CSO 028	28	35	Mitchell Pump Station	Mill River	Active	0.0
CSO 029	29	36	Barnes Pump Station	Quinnipiac River	Active	0.3
CSO 030	30	37	Quinnipiac Pump Station	Quinnipiac River	Active	No model data
CSO 031	31	38	South Frontage / Davenport	New Haven Harbor	Active	No model data
CSO 032	32	39	Port Sea / Liberty	New Haven Harbor	Active	No model data
CSO 033	33	40	Carlisle / Liberty	New Haven Harbor	Active	No model data
CSO 034	34	41	George / Temple	New Haven Harbor	Active	1.0
CSO 035	35	42	Woodward Pump Station	New Haven Harbor	Active	0.1
(not assigned)	36	43	Greene Street	New Haven Harbor	Active	No model data
N/A	37	44	Middletown / Front	Quinnipiac River	Closed	0.0
N/A	38	45	State / James	Mill River	Closed	0.0

CSO VOLUME (MG) 64.8
CSO VOLUME REDUCTION (%) 0%

NUMBER OF ACTIVE CSO REGULATORS 40
NUMBER OF INACTIVE / CLOSED CSO REGULATORS 5
NUMBER OF ACTIVE CSO OUTFALLS 33
NUMBER OF INACTIVE / CLOSED CSO OUTFALLS 5

2007 MODEL UPDATE

CSO LTCP CAPITAL IMPROVEMENTS 1997-2007	2007 CSO REGULATOR STATUS	2007 EXISTING CONDITIONS MODEL ² 2- YEAR DESIGN STORM CSO VOLUME (MG)	REDUCTION 1997- 2007 CSO VOLUME (MG)
Truman Tank	Active		
	Closed	0.0	1.1
Truman Tank	Active	3.1	1.2
	Active	6.1	0.0
	Active	4.8	0.2
	Active	Discharges to CSO 005 outfall	
	Active	Discharges to CSO 005 outfall	
	Active	5.1	-0.5
	Closed	0.0	0.0
	Active	0.2	0.0
	Active	2.5	0.3
Sewer Separation	Active	0.3	0.4
	Active	0.6	0.1
Sewer Separation	Active	7.4	2.5
Sewer Separation	Active	1.5	1.2
Sewer Separation	Active	0.1	0.7
	Active	Discharges to CSO 013 outfall	
	Active	1.0	-0.1
	Active	1.7	2.9
	Active	3.8	-2.1
	Closed	0.0	0.0
Sewer Separation	Closed	0.0	1.7
Sewer Separation	Active	1.3	0.2
	Active	0.6	-0.4
Sewer Separation	Active	5.0	0.4
Sewer Separation	Closed	0.0	0.0
Sewer Separation	Closed	0.0	
	Closed	0.0	0.0
Truman Tank	Active	0.6	2.9
Sewer Separation	Active	2.5	1.7
Sewer Separation	Active	Discharges to CSO 025 outfall	
Sewer Separation	Closed	0.0	0.0
Sewer Separation	Active	0.0	0.1
	Active	0.5	0.2
	Active	0.0	0.0
Pump Station Upgrade	Closed	0.0	0.3
Pump Station Upgrade	Closed	0.0	0.0
Sewer Separation	Active	0.9	No model data
	Active	0.0	No model data
	Active	0.0	No model data
	Active	0.9	0.1
	Active	0.1	0.0
	Active	0.0	No model data
	Closed	0.0	0.0
	Closed	0.0	0.0
	Closed	0.0	0.0

50.6 14.2
22%

33
12
28
10

2013 STATUS

NPDES PERMIT CSO REFERENCE NO.	PROPOSED NPDES PERMIT CSO REF. NO.	CSO LTCP CAPITAL IMPROVEMENTS & NOTES 2007-2013	2013 CSO REGULATOR STATUS
CSO 001	CSO 001		Active
CSO 002			Closed
CSO 003	CSO 003		Active
CSO 004	CSO 004		Active
CSO 005	CSO 005		Active
CSO 005 (A)			Closed
CSO 005 (B)			Closed
CSO 006	CSO 006		Active
CSO 007			Closed
CSO 008		Scheduled for Closure	Close (2013)
CSO 009	CSO 009	I&I Project in Progress	Active
CSO 010		Scheduled for Closure Sewer Separation in Progress	Close (2013)
CSO 010 (A)	R 010 (A)	Sewer Separation in Progress Discharges to CSO 011	Active
CSO 011	CSO 011	Sewer Separation in Progress	Active
CSO 012	CSO 012		Active
CSO 013	CSO 013		Active
CSO 013 (A)			Closed
CSO 014	R 014	Scheduled for Closure Sewer Separation in Progress Discharges to CSO 011	Close (2013)
CSO 015	CSO 015	I&I Project in Progress; Tide Gate 2012	Active
CSO 016	CSO 016	Tide Gate 2010	Active
CSO 017			Closed
CSO 018			Closed
CSO 019	CSO 019		Active
CSO 020	CSO 020		Active
CSO 021	CSO 021	Sewer Separation in Progress; Tide Gate 2013	Active
CSO 021 (A)			Closed
CSO 022			Closed
CSO 023			Closed
CSO 024	CSO 024	Tide Gate 2010	Active
CSO 025	CSO 025		Active
CSO 025 (A)			Closed
CSO 025 (B)			Closed
CSO 026	R 026	Discharges to CSO 011	Active
CSO 027		Closed CSO	Closed
CSO 028	R 028	Discharge to CSO 012	Active
CSO 029			Closed
CSO 030			Closed
CSO 031		Closed CSO	Closed
CSO 032	R 032	Scheduled for Closure	Close (2013)
CSO 033		Closed CSO	Closed
CSO 034	R 034	Discharge to CSO 025	Active
CSO 035		Closed CSO	Closed
(not assigned)	CSO GREENE		Active
N/A			Closed
N/A			Closed

21

24
17
21

FACILITIES PLAN &
LONG TERM CONTROL PLAN GOAL

2011 CSO LTCP PROPOSED CAPITAL IMPROVEMENTS	2011 CSO LTCP FINAL CSO STATUS	2011 CSO LTCP FUTURE CONDITIONS MODEL ² 2-YEAR DESIGN STORM CSO VOLUME (MG)
Wet Weather Improvements	Active w/ Treatment	
	Closed	0.0
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
Discharges to CSO 005 Storage Tank	Inactive	0.0
Discharges to CSO 005 Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Closed	0.0
Monitoring Program	Active	0.1
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
Monitoring Program	Active	0.3
Monitoring Program	Active	0.5
CSO Storage Tank	Inactive	0.0
CSO Storage Tank	Inactive	0.0
Monitoring Program	Inactive	0.0
Discharges to CSO 013 outfall	Inactive	0.0
Sewer Separation / Monitoring Program	Inactive	0.0
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
	Closed	0.0
	Closed	0.0
Sewer Separation and Roof Leader Disconnection	Inactive	0.0
Monitoring Program	Closed	0.0
Major Pump Station Upgrade / Monitoring Program	Active	0.2
	Closed	0.0
	Closed	0.0
	Closed	0.0
	Closed	0.0
Major Pump Station Upgrade	Inactive	0.0
Major Pump Station Upgrade / Monitoring Program	Inactive	0.2
Monitoring Program	Inactive	0.0
	Closed	0.0
Monitoring Program	Closed	0.0
Close CSO	Closed	0.0
	Closed	0.0
	Closed	0.0
Close CSO	Closed	0.0
Monitoring Program	Active	0.8
Close CSO	Closed	0.0
Monitoring Program	Closed	0.0
	Closed	0.0
	Closed	0.0
	Closed	0.0

2.1

97%
6
39
5
37

LEGEND/NOTES

	DENOTES CSO OUTFALL CURRENTLY INACTIVE/CLOSED
1	DATA OBTAINED FROM 2001 LTCP
2	DATA OBTAINED FROM 2011 FACILITIES PLAN
3	IT IS PROPOSED THAT THE REMAINING 2.1MG OF CSO VOLUME WOULD EITHER BE CAPTURED BY A TANK(S) OR ELIMINATED THROUGH SEPARATION TYPE PROJECT WITHIN EACH RESPECTIVE SEWERSHED. THE FACILITIES PLAN ASSUMES THAT THERE WILL BE BETTER INFORMATION AT THE TIME WE VISIT EACH SEWERSHED AND THAT A COST BENEFIT DETERMINATION WITH THEN BE MADE TO REACH THE GOAL OF ZERO OVERFLOWS DURING A 2-YEAR EVENT. FURTHER CLARIFICATION OF THIS APPROACH CAN BE FOUND IN THE THE LETTER FROM THE AUTHORITY TO DEEP'S GEORGE V. HICKS DATED JUNE 21, 2011 REGARDING THE GHNWPCA LONG TERM CONTROL PLAN UPDATE.

DEFINITIONS

ACTIVE	ACTIVE CSO DURING A 2-YEAR STORM FREQUENCY, SEE NOTE NO. 3
INACTIVE	INACTIVE CSO DURING STORM FREQUENCIES BELOW 2-YEARS
CLOSED	CLOSED - BULKHEADED CSO, CLOSED FOR ALL STORMS

ATTACHMENT B

[illegible]

ATTACHMENT C

ATTACHMENT D



FY 2013 GNHWPCA LETTER CORRESPONDENCE

DATE	DOCUMENT TYPE	CWF #	PROJECT	TO	FROM
05/30/12	Letter	CWF 441-D	WW Nitrogen Phase 1 - Env Justice Program Plan Submittal	Edith Pestana	T.Sgroi, PE
06/26/12	Transmittal	CWF 581C2	James Street Tide Gate NTP	I.Hall, PE	M.Ricozzi, PE
08/20/12	Transmittal	CWF 581C2	Yale/Trumbull Phase 1A - Change Order No. 1	I.Hall, PE	M.Ricozzi, PE
09/17/12	Transmittal	CWF 629 & 211	I/I Phase 1 Study Woodbridge and Design State St and Area 10	I.Hall, PE	M.Ricozzi, PE
12/28/12	Transmittal	CO WC5509	GNHWPCA Two Year Bid Schedule	G.Hicks, PE	S.Holbrook
01/07/13	Letter	CWF 441D	WW Nitrogen Phase 1 - Proprietary Equipment Request	S.Muollo	Sgroi & Zrelak
01/10/13	Letter	USEPA RFI	CSO Flow Monitoring Plan Status Report	Neil Handler	S.Holbrook
02/08/13	Letter	USEPA RFI	Follow-up Letter from EPA Meeting	Neil Handler	S.Holbrook
02/14/13	Transmittal	CWF 441D	WW Nitrogen Phase 1 - VE Study #2	S.Muollo	M.Ricozzi, PE
03/13/13	Letter Trans	USEPA RFI	CSO Flow Monitoring Reports	Handler/Hicks	S.Holbrook
04/15/13	Transmittal	CWF-TBD	I/I State St Hamden & Area 10 East Haven Authorization to Bid	I.Hall, PE	M.Ricozzi, PE
04/16/13	Transmittal	CWF-441D	WW Nitrogen Phase 1 - Various Bid Documents	S.Muollo	M.Ricozzi, PE
05/03/13	Transmittal	CWF-441C	WW Nitrogen Phase 1 - Volumes 1 through 5 of Plans and Specs	S.Muollo	M.Ricozzi, PE
05/13/13	Transmittal	CWF-581C2	Replacement of Tide Gate at East St - Change Order No. 2	I.Hall, PE	M.Ricozzi, PE
05/16/13	Transmittal	CWF-TBD	I/I State St Hamden & Area 10 East Haven Rev. Plans and Specs	I.Hall, PE	M.Ricozzi, PE
05/24/13	Transmittal	CWF-441C	WW Nitrogen Phase 1 - Addendum No. 1	S.Muollo	M.Ricozzi, PE
06/17/13	Transmittal	CWF-441C	WW Nitrogen Phase 1 - Addendum No. 2 and 3	S.Muollo	M.Ricozzi, PE

ATTACHMENT E

**GREATER NEW HAVEN
WATER POLLUTION CONTROL AUTHORITY**



**JUNE 2013
ANNUAL CSO FLOW MONITORING
PROGRAM DATA**

ATTACHMENT "E"

JUNE 2013
ANNUAL CSO FLOW MONITORING PROGRAM DATA

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**MONITORING
STATUS REPORT
JUNE 2013**

GREATER NEW HAVEN WPCA
CSO FLOW MONITORING PLAN
STATUS REPORT
6/12/2013

CSO NUMBER	REGULATOR NUMBERS	CSL/SCADA METER DESIGNATION	CSL/SCADA METER LOCATION	CSL/SCADA METER DATA	DATE INSTALLED	CALIBRATION PERIOD COMPLETED
BOULEVARD PUMP STATION TRIBUTARY AREA						
CSO 008	REG 008	NHRG	Boulevard PS	Total rainfall in 5 min increments	Jun-12	Aug-12
CSO 006	REG 006	OF-006 Overflow AA	In one of two 24 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
	REG 006	OF-006 Overflow BB	In one of two 24 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
		OF-006 Sewer	In 36 inch sewer upstream of twin 24 inch overflow pipes	depth and velocity in 5 min increments	Jun-12	Aug-12
CSO 005	REG 005	OF-005 Overflow	In 48 inch overflow pipe	depth and velocity in 5 min increments during overflows	Jun-12	Oct-12
		OF-005 Sewer	In 60 inch wide by 57 inch high sewer at REG 005	depth and velocity in 5 min increments	Jun-12	Oct-12
CSO 004	REG 004	OF-004 Overflow	In 3 foot high by 5 foot wide overflow box culvert	depth and velocity in 5 min increments during overflows	Jun-12	Aug-12
		OF-004 Sewer	In 72 inch wide by 64 inch high sewer downstream of REG 004	depth and velocity in 5 min increments	Jun-12	Aug-12
CSO 003	REG 003	OF-003 Overflow	In 54 inch overflow pipe	depth and velocity in 5 min increments during overflows	Jun-12	Aug-12
		OF-003 Sewer	In 72 inch wide by 64 inch high sewer downstream of REG 003	depth and velocity in 5 min increments	Jun-12	Aug-12
		GNH 1	In 72 inch wide by 64 inch high sewer downstream of Truman Tank diversion chamber	depth and velocity in 5 min increments	Jun-12	Aug-12
		Truman Tank SCADA Data	In cell 1 and cell 2 of Truman Tank	Depth in cell 1 and cell 2 of Truman Tank in 5 min increments	Jun-12	Jun-12
CSO 024	REG 024	OF-024 US	In 84 inch wide by 69 inch high sewer upstream of REG 024	depth and velocity in 5 min increments	Aug-12	Jan-13
		OF-024 DS	In 48 inch sewer downstream of REG 024	depth and velocity in 5 min increments	Aug-12	Jan-13
		OF-024 weir	In REG 024	depth at the overflow weir in 5 min increments	Dec-12	Dec-12
		BPS SCADA Data	In wetwell 1 and wetwell 2 of Boulevard PS	depth in wetwell 1 and wetwell 2 of BPS in 5 min increments	Jun-12	Jun-12
		BPS SCADA Data	Magmeters on each of four pump discharges (uncalibrated)	sum of flow from four magmeters in 5 min increments	Jun-12	Jun-12
5 CSOs	5 Regulators	12 Meters				
UNION PUMP STATION TRIBUTARY AREA						
CSO 025	REG 034	Regulator 034 Sewer	In 48 inch sewer at REG 034	depth and velocity in 5 min increments	Mar-13	Apr-13
	REG 034	Regulator 034 Sewer	In REG 034	depth and velocity in 5 min increments during overflows	Mar-13	Apr-13
	REG 025	OF-025	In REG 025	depth and velocity in 5 min increments during overflows	Dec-12	Jan-13
	REG 032					
1 CSO	2 Regulators	2 Meters				
EAST STREET PUMP STATION TRIBUTARY AREA (INCLUDES UNION PUMP STATION TRIBUTARY AREA)						
CSO 013	REG 013	OF-013 Sewer	In 37 inch wide by 25 inch high sewer at REG 013	depth and velocity in 5 min increments	Mar-13	Apr-13
	REG 013	OF-013 weir	In REG 013	depth and velocity in 5 min increments during overflows	Mar-13	Apr-13
CSO 012	REG 012	OF-012 A	In one of two 18 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
	REG 012	OF-012 B	In one of two 18 inch overflow pipes	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
	REG 028	MPS SCADA Data	In wetwell of Mitchell Drive PS	depth in wetwell of MPS in 5 min increments	Aug-12	Aug-12
CSO 010	REG 010	OF-010	In 54 inch sewer at REG 010 and REG 010 A	depth and velocity in 5 min increments	Dec-12	Jan-13
CSO 011	REG 010 A	OF-010 A	In 54 inch sewer at REG 010 and REG 010 A	depth and velocity in 5 min increments	Dec-12	Jan-13
	REG 014	OF-014 Sewer	In 66 inch sewer at REG 014	depth and velocity in 5 min increments	Dec-12	Jan-13
	REG 014	OF-014 Overflow	In REG 014	depth at the overflow weir in 5 min increments	Dec-12	Jan-13

GREATER NEW HAVEN WPCA
CSO FLOW MONITORING PLAN
STATUS REPORT
6/12/2013

CSO NUMBER	REGULATOR NUMBERS	CSL/SCADA METER DESIGNATION	CSL/SCADA METER LOCATION	CSL/SCADA METER DATA	DATE INSTALLED	CALIBRATION PERIOD
						COMPLETED
	REG 011	OF-011-997 OF-011-609 OF-011-631 OF-011-819	In 30 inch sewer on State Street upstream of REG 011 In 37 inch wide by 25 inch high sewer on Humphrey Street upstream of REG 011 In 66 inch sewer on State Street upstream of REG 011 In 42 inch sewer on Humphrey Street downstream of REG 011	depth and velocity in 5 min increments depth and velocity in 5 min increments depth and velocity in 5 min increments depth and velocity in 5 min increments	Dec-12 Dec-12 Dec-12 Dec-12	Jan-13 Jan-13 Jan-13 Jan-13
	REG 026	HPS SCADA Data	In wetwell of Humphrey Street PS	depth in wetwell of HPS in 5 min increments	Jun-12	Jun-12
CSO GREENE	REG GREENE	OF-Greene	In 54 inch overflow pipe	depth and velocity in 5 min increments during overflows	Aug-12	Oct-12
CSO 021	REG 021	E St PS Sewer OF-021	In 62 inch wide by 67 inch high sewer upstream of REG 021 In REG 021	depth and velocity in 5 min increments depth at the overflow weir in 5 min increments	Nov-12 Sep-12	Dec-12 Oct-12
6 CSOS	10 Regulators	12 Meters				
JAMES STREET SIPHON TRIBUTARY AREA						
CSO 009	REG 009	OF-009	In 30 inch wide by 45 inch high overflow pipe	depth and velocity in 5 min increments during overflows	Oct-12	Jan-13
CSO 019	REG 019	OF-019	In 24 inch overflow pipe	depth and velocity in 5 min increments during overflows	Aug-12	Nov-12
CSO 016	REG 016	OF-016	In 60 inch wide by 48 inch high overflow pipe	depth and velocity in 5 min increments during overflows	Sep-12	Nov-12
CSO 015	REG 015	OF-015 US OF-015 DS	In 45 inch sewer upstream of REG 015 In 48 inch sewer downstream of REG 015	depth and velocity in 5 min increments depth and velocity in 5 min increments	Oct-12 Oct-12	Jan-13 Jan-13
4 CSOs	4 Regulators	5 Meters				
ESWPAF TRIBUTARY AREA						
CSO 020	REG 020	OF-020	In 24 inch sewer at REG 020	depth and velocity in 5 min increments	Mar-13	Apr-13
	REG 020	OF-020	In REG 020	depth at the overflow pipe in 5 min increments	Mar-13	Apr-13
1 CSO	1 Regulator	1 Meter				
TOTALS						
17 CSOs	22 Regulators	32 Meters				

METER DATA

SUMMARY

JUNE 2012 – APRIL 2013

**GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
CSO FLOW MONITORING PROGRAM
METER DATA SUMMARY - THROUGH APRIL 2013**

<u>CSO NUMBER</u>	<u>REGULATOR NUMBERS</u>	<u>CSO EVENTS</u>	<u>CSO VOLUME (MG)</u>	<u>RAINFALL (IN)</u>	<u>METER MONTHS</u>
CSO 006	REGS 006 A, 006 B	12	5.194	34.87	11
CSO 005	REG 005	31	4.449	34.87	11
CSO 004	REG 004	38	20.606	34.87	11
CSO 003	REG 003	25	13.657	34.87	11
CSO 024	REG 024	9	14.165	29.27	9
CSO 009	REG 009	9	0.683	17.53	7
CSO 019	REG 019	4	0.199	29.27	9
CSO 016	REG 016	17	11.778	23.60	8
CSO 015	REG 015	6	1.224	17.53	7
CSO 010	REG 010	7	0.728	23.60	8
CSO 011	REGS 010A, 011, 014, 026	2	0.555	13.16	5
CSO 012	REGS 012A, 012B, 028	21	10.056	29.27	9
CSO GREENE	REG GREENE	3	0.111	29.27	9
CSO 025	REGS 025, 034	5	4.042	13.16	5
CSO 021	REG 021	8	8.742	14.16	6
CSO 013	REG 013	0	0.000	3.94	2
CSO 020	REG 020	0	0.000	3.94	2
TOTAL		197	96.189	34.87	11